

## iDS-2CD7146G2/LM-IZ(H)S(Y) 4MP DeepinViewX Moto Varifocal Dome Camera

DarkFighter 2.0

DeepinView X



Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 4 MP resolution
- Excellent low-light performance via DarkFighter2.0 technology
- Clear imaging against strong back light due to 150 dB AWDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)
- Built-in dual MIC and speaker
- Supports Guanlan large model algorithms, license plate recognition, vehicle attribute analysis, perimeter protection, AIOP with built-in PPE detection model
- Capable of loading trained large model algorithm packages from the AI training platform

## ▪ Function

### Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leaves, lights, animal, flag, etc.

### Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.

## ▪ Specification

| Camera                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/1.8" Progressive Scan CMOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Max. Resolution        | 2688 × 1520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Min. Illumination      | Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR, 0 Lux with light                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Shutter Time           | 1 s to 1/100,000 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Day & Night            | IR cut filter,<br>Blue glass module (less ghost phenomenon)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Lens                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Focal Length & FOV     | 2.8 to 12 mm, horizontal FOV 112.5° to 47.7°, vertical FOV 58.2° to 26.7°, diagonal FOV 138.2° to 54.8°<br>8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Focus                  | Auto, Semi-auto, Manual                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Iris Type              | P-iris                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Aperture               | 2.8 to 12 mm: F1.4 to F2.1<br>8 to 32 mm: F1.7 to F1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DORI                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OODPCVS                | <p>Wide:</p> <p>2.8 to 12 mm: Overview: 75.9 m, Outline: 37.9 m, Discern: 19.0 m, Perceive: 12.1 m, Characterize: 6.1 m, Validate: 3.0 m, Scrutinize: 1.0 m</p> <p>8 to 32 mm: Overview: 187.9 m, Outline: 94.0 m, Discern: 47.0 m, Perceive: 30.1 m, Characterize: 15.0 m, Validate: 7.5 m, Scrutinize: 2.5 m</p> <p>Tele:</p> <p>2.8 to 12 mm: Overview: 160.3 m, Outline: 80.2 m, Discern: 40.1 m, Perceive: 25.7 m, Characterize: 12.8 m, Validate: 6.4 m, Scrutinize: 2.1 m</p> <p>8 to 32 mm: Overview: 500.0 m, Outline: 250.0 m, Discern: 125.0 m, Perceive: 80.0 m, Characterize: 40.0 m, Validate: 20.0 m, Scrutinize: 6.7 m</p> <p>The OODPCVS values are calculated using pixel densities for different use cases as recommended by the IEC/EN 62676-4:2025 standard. IEC 62676-4:2025 describes the planning, design, installation, testing, commissioning, and maintaining of video surveillance systems (VSS) comprising image capture device(s), interconnection(s) and image handling device(s), for use in security applications within private or public spaces.</p> |
| Illuminator            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Supplement Light Type  | IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Supplement Light Range | 2.8 to 12 mm: Monitoring: 40 m; 8 to 32 mm: Monitoring: 60 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Smart Supplement Light | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| IR Wavelength          | 850 nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| AI Open Platform            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Specification         | <p>1. Up to 3 models. Model type: detection model, classification model, mixed model (detection model and classification model).</p> <p>2. Supports video analysis (detection, classification, mixed, OCR, segmentation, comparison) and scheduled capture analysis (classification).</p> <p>(1) Detection: Region target exception status detection, line crossing target detection, line crossing target counting, region target number counting, full analysis rule, combined rule, area overlap ratio counting, area overlap ratio exception detection.</p> <p>(2) Classification: Region exception status detection, full analysis rule.</p> <p>(3) Mixed: Region target exception status detection, line crossing target detection, line crossing target counting, region target number counting, full analysis rule, combined rule; area overlap ratio counting, area overlap ratio exception detection.</p> <p>(4) Picture Comparison: Area status change detection.</p> <p>(5) OCR: OCR-triggered capture.</p> <p>(6) OVD: Region target exception status detection, line crossing target detection, line crossing target counting, region target number counting, full analysis rule, combined rule, area overlap ratio counting, area overlap ratio exception detection.</p> <p>3. Supports 4 model packages, each capable of detecting 16 target types and classifying 4 targets. The targets can be classified as 64 types. The device runs only 1 model at the same time.</p> <p>4. Built-in models for PPE detection (hard hat and reflective clothing).</p> |
| Video                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Main Stream                 | 50 Hz:25 fps(2688×1520,2560×1440,1920×1080,1280×720)<br>60 Hz:30 fps(2688×1520,2560×1440,1920×1080,1280×720)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sub-Stream                  | 50 Hz: 25 fps (704×576,640×480)<br>60 Hz: 30 fps (704×480,640×480)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Third Stream                | 50 Hz:25 fps(1920×1080,1280×720,704×576,640×480)<br>60 Hz:30 fps(1920×1080,1280×720,704×480,640×480)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Video Compression           | Main stream: H.265+/H.265/H.264+/H.264,<br>Sub-stream: H.265/H.264/MJPEG,<br>Third stream: H.265/H.264                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Video Bit Rate              | 32 Kbps to 8 Mbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| H.264 Type                  | Baseline Profile,Main Profile,High Profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| H.265 Type                  | Main Profile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Bit Rate Control            | CBR,VBR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Scalable Video Coding (SVC) | H.264 and H.265 encoding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Region of Interest (ROI)    | 4 fixed regions for each stream                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Target Cropping             | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| e-PTZ                       | Support Patrol and Auto Tracking settings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Audio                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Audio Type                  | Mono sound                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Audio Bit Rate              | 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/48 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Environment Noise Filtering | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Network                  |                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocols                | IPv6,RTP,ICMP,PPPoE,DNS,WebSocket,TCP/IP,SSL/TLS,HTTPS,RTSP,IGMP,SNMP,NTP,SMTP,WebSockets,SFTP,UPnP,DHCP,802.1X,IPv4,FTP,UDP,QoS,RTCP,HTTP,DDNS                                                                                                                                                                                                                                                         |
| Simultaneous Live View   | Up to 20 channels                                                                                                                                                                                                                                                                                                                                                                                       |
| API                      | ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M)                                                                                                                                                                                                                                                                                                                                  |
| User/Host                | Up to 32 users<br>3 user levels: administrator, operator, and user                                                                                                                                                                                                                                                                                                                                      |
| Security                 | Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2, CC EAL4+), AES128/256 |
| Network Storage          | NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR),<br>Together with high-end Hikvision memory card, memory card encryption and health detection are supported.                                                                                                                                                                                                                                       |
| Client                   | iVMS-4200,Hik-Connect,Hik-Central                                                                                                                                                                                                                                                                                                                                                                       |
| Web Browser              | Plug-in required live view: IE 10, IE 11,<br>Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+,<br>Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+                                                                                                                                                                                                                         |
| Image                    |                                                                                                                                                                                                                                                                                                                                                                                                         |
| Image Parameters Switch  | Yes                                                                                                                                                                                                                                                                                                                                                                                                     |
| Image Settings           | Rotate mode,saturation,brightness,contrast,sharpness,white balance,AGC,adjustable by client software or web browser                                                                                                                                                                                                                                                                                     |
| Day/Night Switch         | Day,Night,Auto,Schedule,Alarm Trigger                                                                                                                                                                                                                                                                                                                                                                   |
| Wide Dynamic Range (WDR) | 150 dB                                                                                                                                                                                                                                                                                                                                                                                                  |
| Image Enhancement        | BLC,HLC,3D DNR,Distortion Correction,Defog                                                                                                                                                                                                                                                                                                                                                              |
| Privacy Mask             | 8 programmable polygon privacy masks                                                                                                                                                                                                                                                                                                                                                                    |
| SNR                      | ≥ 52 dB                                                                                                                                                                                                                                                                                                                                                                                                 |
| Picture Overlay          | LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.                                                                                                                                                                                                                                                                                                                                 |
| Image Stabilization      | EIS                                                                                                                                                                                                                                                                                                                                                                                                     |
| Interface                |                                                                                                                                                                                                                                                                                                                                                                                                         |
| Video Output             | 1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)                                                                                                                                                                                                                                                                                                                                                |
| Ethernet Interface       | 1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port                                                                                                                                                                                                                                                                                                                                                    |
| On-Board Storage         | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB                                                                                                                                                                                                                                                                                                                         |
| Alarm                    | 2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)                                                                                                                                                                                                                                                                                                                                                           |
| Built-in Microphone      | 2 built-in microphones                                                                                                                                                                                                                                                                                                                                                                                  |
| Audio                    | 1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium,<br>1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium, mono sound                                                                                              |
| Built-in Speaker         | 1 built-in speaker, Max. power consumption: 1.5 W                                                                                                                                                                                                                                                                                                                                                       |
| RS-485                   | 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)                                                                                                                                                                                                                                                                                                                                      |
| Reset Key                | Yes                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power Output             | 12VDC,max.100mA,External extension cord less than 10 meters.                                                                                                                                                                                                                                                                                                                                            |

| Event                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Event                        | Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, video quality diagnosis, exception (network disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD error), vibration detection                                                                                                                                                                                                                                                       |
| Smart Event                        | scene change detection, audio exception detection, defocus detection, unattended baggage detection, loitering detection, object removal detection, people gathering detection, fast moving detection, parking detection                                                                                                                                                                                                                                                                                                           |
| Linkage                            | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning                                                                                                                                                                                                                                                                                                                                                                                  |
| Deep Learning Function             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Perimeter Protection               | Line crossing, intrusion, region entrance, region exiting<br>Support alarm triggering by specified target types (human and vehicle)<br>Support combined event alarm triggering                                                                                                                                                                                                                                                                                                                                                    |
| Metadata                           | Intrusion detection, line crossing detection, region entrance detection, region exiting detection                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Road Traffic and Vehicle Detection | Accuracy (under recommended installation and lighting conditions)<br>Capture rate > 98%<br><br>Vehicle moving direction recognition accuracy > 96%<br><br>Mistaken capture rate < 2% (entrance/exit), < 5% (checkpoint)<br><br>Blocklist and allowlist: up to 10000 records<br>Captures vehicle that has no license plate<br>Support license plate recognition of motorcycles (only in checkpoint scenario)<br>Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended). |
| General                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Power                              | three-core terminal block,<br>12 VDC $\pm$ 20%, 1.51 A, max. 18.1 W,<br>24 VAC $\pm$ 20%, 1.3 A, max. 17.9 W,<br>PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.39 A to 0.29 A, max. 18.7 W                                                                                                                                                                                                                                                                                                                                |
| Material                           | Aluminum alloy body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Dimension                          | $\varnothing$ 144.3 mm $\times$ 114.1 mm ( $\varnothing$ 5.7" $\times$ 4.5")                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Package Dimension                  | 244 mm $\times$ 174 mm $\times$ 173 mm (9.6" $\times$ 6.9" $\times$ 6.8")                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Weight                             | Approx. 1100 g (2.43 lb.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| With Package Weight                | Approx. 1482 g (3.27 lb.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Storage Conditions                 | -40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Startup and Operating Conditions   | With -H: -40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing),<br>Without -H: -30 °C to 65 °C (-22 °F to 149 °F). Humidity 95% or less (non-condensing)                                                                                                                                                                                                                                                                                                                                                      |
| Language                           | 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian                                                                                                                                                                             |
| General Function                   | Heartbeat, anti-banding, one-key reset, mirror, password protection, flash log                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Heater                             | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                            |                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device Management          | Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces                                          |
| Integrated Connector Panel | No                                                                                                                                                   |
| <b>Approval</b>            |                                                                                                                                                      |
| EMC                        | CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, RCM: AS/NZS CISPR 32: 2015 |
| Safety                     | CB: IEC 62368-1: 2014+A11,<br>CE-LVD: EN 62368-1: 2014/A11: 2017,<br>LOA: IEC/EN 60950-1                                                             |
| Environment                | CE-RoHS: 2011/65/EU,<br>WEEE: 2012/19/EU,<br>Reach: Regulation (EC) No 1907/2006                                                                     |
| Protection                 | IP67: IEC 60529-2013, IK10: IEC 62262:2002                                                                                                           |
| Anti-Corrosion Protection  | -Y: NEMA 4X (NEMA 250-2018)                                                                                                                          |
| Other                      | PVC FREE                                                                                                                                             |

## ▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

With -Y model: This model has MODERATE PROTECTION.

Without -Y model: This model has NO SPECIFIC PROTECTION.

| Level                  | Description                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Top-level protection   | Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.                                             |
| Moderate protection    | Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain. |
| No specific protection | Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.                                                                                                                                  |

## ▪ Available Model

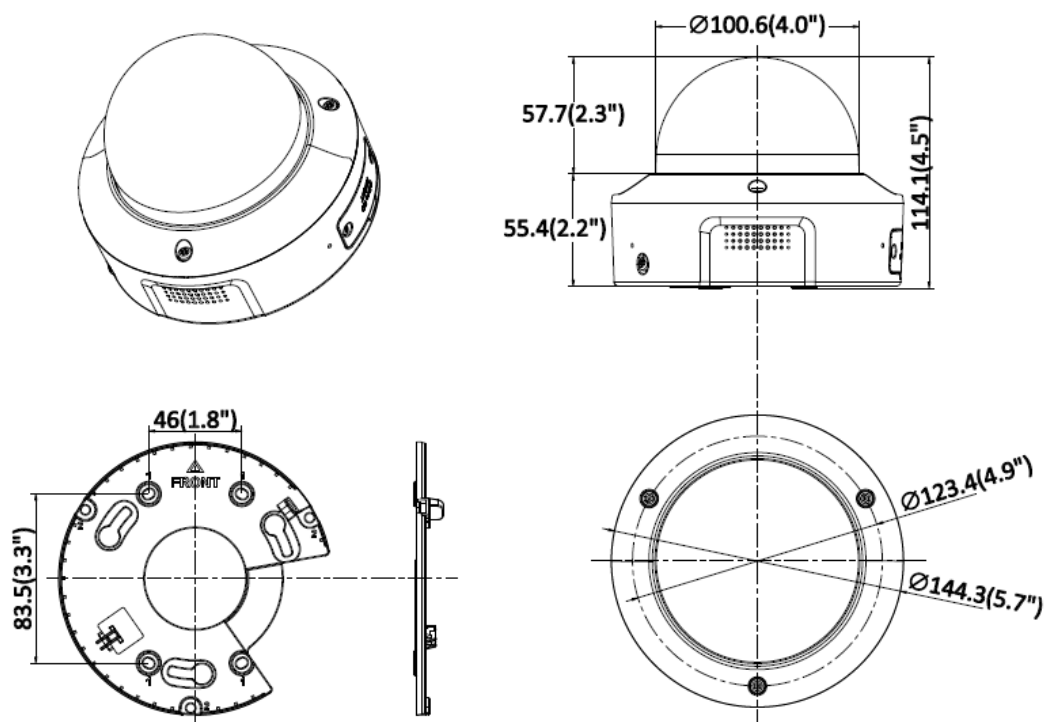
iDS-2CD7146G2/LM-IZHSY(8-32mm)

iDS-2CD7146G2/LM-IZHSY(2.8-12mm)

iDS-2CD7146G2/LM-IZS(8-32mm)

iDS-2CD7146G2/LM-IZS(2.8-12mm)

## ▪ Dimension



Unit:mm (inch)

| Camera Mounting Hole<br>(mm) | Camera Mounting Hole<br>(inch) |
|------------------------------|--------------------------------|
| Double Gang(4* $\phi$ 4.5)   | Double Gang(4* $\phi$ 0.2")    |

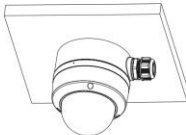
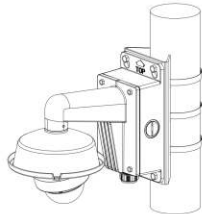
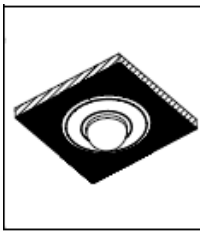
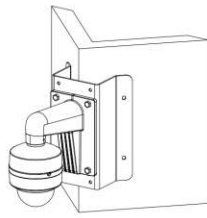
## ▪ Accessory

### ▪ Optional

| DS-2200ZJ-WA-140                                                                    | DS-2280ZJ-WA140                                                                     | DS-1475ZJ-SUS                                                                       | DS-1227ZJ-DM32                                                                        | DS-2200ZJ-WAJ-140                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| DS-1476ZJ-SUS                                                                       | DS-2210ZJ-WA-140                                                                    | DS-1271ZJ-140-DM<br>45                                                              | DS-1273ZJ-160-AK<br>S                                                                 | DS-4220ZJ-WC                                                                          |

|                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| <b>DS-1281ZJ-DM23</b>                                                             | <b>DS-1475ZJ-Y</b>                                                                | <b>DS-1476ZJ-Y</b>                                                                |                                                                                    |                                                                                     |
|  |  |  |                                                                                    |                                                                                     |

## ■ Installation Methods

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Wall Mounting</b><br>DS-2200ZJ-WA-140+D<br>S-1281ZJ-DM23                         | <b>Wall Mounting</b><br>DS-2200ZJ-WAJ-140                                           | <b>Wall Mounting</b><br>DS-1273ZJ-160-AKS                                           | <b>Junction Box</b><br>DS-2280ZJ-WA140                                               | <b>Vertical Pole Mounting</b><br>DS-1475ZJ-SUS+DS-12<br>81ZJ-DM23+DS-1253Z<br>J-L+DS-2200ZJ-WAJ-1<br>40 |
|  |  |  |  |                    |
| <b>Vertical Pole Mounting</b><br>DS-1475ZJ-Y+DS-1273<br>ZJ-160-AKS                  | <b>In-Ceiling Mounting</b><br>DS-1227ZJ-DM32                                        | <b>In-Ceiling Mounting</b><br>DS-4220ZJ-WC                                          | <b>Corner Mounting</b><br>DS-1476ZJ-SUS+DS-22<br>80ZJ-WA140+DS-2200<br>ZJ-WA-140     | <b>Corner Mounting</b><br>DS-1476ZJ-Y+DS-1273<br>ZJ-160-AKS                                             |
|  |  |  |  |                    |
| <b>Pendant Mounting</b><br>DS-2210ZJ-WA-140                                         | <b>Pendant Mounting</b><br>DS-1271ZJ-140-DM45<br>+DS-1281ZJ-DM23                    | <b>Inclined Ceiling Mounting</b><br>DS-1281ZJ-DM23                                  |                                                                                      |                                                                                                         |



# See Far, Go Further



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